

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-4 (canceled)

5. (currently amended) ~~The system of claim 1,~~ A system for at least partially canceling noise, the system comprising: a member configured to be located in the vicinity of a noise producing object, wherein the member comprises a plurality of elements, at least some of the elements being configured to detect noise from the noise producing object, and at least some of the elements being configured to emit sound; and a controller configured to receive at least one signal indicative of noise detected by at least some of the elements and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise, and wherein the elements are arranged in an array resembling a generally mosaic form.

6. (currently amended) ~~The system of claim 1,~~ A system for at least partially canceling noise, the system comprising: a member configured to be located in the vicinity of a noise producing object, wherein the member comprises a plurality of elements, at least some of the elements being configured to detect noise from the noise producing object, and at least some of the elements being configured to emit sound; and a controller configured to receive at least one signal indicative of noise detected by at least some of the elements and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise, and wherein the member is configured in the form of a panel.

7. (Original) The system of claim 6, wherein the panel has a substantially planar shape.

8. (canceled)

9. (currently amended) ~~The system of claim 1,~~ A system for at least partially canceling noise, the system comprising: a member configured to be located in the vicinity of a noise producing object, wherein the member comprises a plurality of elements, at least some of the elements being configured to detect noise from the noise producing object, and at least some of the elements being configured to emit sound; and a controller configured to receive at least one signal indicative of noise detected by at least some of the elements and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise and wherein the controller is configured to cause at least some of the elements to emit sound at substantially the same intensity and frequency as that of the detected noise.

10-17 (canceled)

18. (currently amended) ~~The system of claim 12,~~ A system for at least partially canceling noise, the system comprising: an enclosure configured to be placed at least partially around a noise producing object, wherein at least a portion of the enclosure comprises a plurality of elements, at least some of the elements being configured to emit sound; at least one noise detector configured to detect noise from the noise producing object; and a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the

same as that of the detected noise, and wherein the elements are arranged in an array resembling a generally mosaic form.

19. (currently amended) ~~The system of claim 12,~~ A system for at least partially canceling noise, the system comprising: an enclosure configured to be placed at least partially around a noise producing object, wherein at least a portion of the enclosure comprises a plurality of elements, at least some of the elements being configured to emit sound; at least one noise detector configured to detect noise from the noise producing object; and a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise, and wherein the portion of the enclosure is configured in the form of a panel.

20. (Original) The system of claim 19, wherein the portion of the enclosure has a substantially planar shape.

21. (currently amended) ~~The system of claim 12,~~ A system for at least partially canceling noise, the system comprising: an enclosure configured to be placed at least partially around a noise producing object, wherein at least a portion of the enclosure comprises a plurality of elements, at least some of the elements being configured to emit sound; at least one noise detector configured to detect noise from the noise producing object; and a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise, and wherein enclosure comprises a plurality of portions configured to be connected together.

22. (currently amended) ~~The system of claim 12,~~ A system for at least partially canceling noise, the system comprising: an enclosure configured to be placed at least partially around a noise producing object, wherein at least a portion of the enclosure comprises a plurality of elements, at least some of the elements being configured to emit sound; at least one noise detector configured to detect noise from the noise producing object; and a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause at least some of the elements to emit sound at a polarity substantially opposite to a polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise, and wherein the controller is configured to cause at least some of the elements to emit sound at substantially the same intensity and frequency as that of the detected noise.

23-29 (canceled)

30. (currently amended) ~~The system of claim 25,~~ A system for at least partially canceling noise, the system comprising: at least one noise detector configured to detect noise from a noise producing object; at least one sound emitter configured to emit sound; a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause the at least one sound emitter to emit sound at a polarity substantially opposite to a polarity of the detected noise and at a frequency and intensity substantially the same as that of the detected noise; and an analyzer configured to analyze the noise detected by the at least one noise detector, the analyzer being configured to determine when noise detected by the at least one noise detector is indicative of at least one condition of the noise producing object, and wherein the analyzer is configured to compare the detected noise to information relating to at least one noise profile of the object.

31. (currently amended) ~~The system of claim 25,~~ A system for at least partially canceling noise, the system comprising: at least one noise detector configured to detect noise from a noise producing object; at least one sound emitter configured to emit

sound; a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause the at least one sound emitter to emit sound at a polarity substantially opposite to a polarity of the detected noise and at a frequency and intensity substantially the same as that of the detected noise; and an analyzer configured to analyze the noise detected by the at least one noise detector, the analyzer being configured to determine when noise detected by the at least one noise detector is indicative of at least one condition of the noise producing object, and wherein the analyzer is configured to provide output indicative of a possible failure associated with the object.

32-33 (canceled)

34. (currently amended) ~~The system of claim 25,~~ A system for at least partially canceling noise, the system comprising: at least one noise detector configured to detect noise from a noise producing object; at least one sound emitter configured to emit sound; a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause the at least one sound emitter to emit sound at a polarity substantially opposite to a polarity of the detected noise and at a frequency and intensity substantially the same as that of the detected noise; and an analyzer configured to analyze the noise detected by the at least one noise detector, the analyzer being configured to determine when noise detected by the at least one noise detector is indicative of at least one condition of the noise producing object, and wherein the at least one sound emitter and the at least one noise detector are arranged in an array resembling a generally mosaic form.

35. (currently amended) ~~The system of claim 26,~~ A system for at least partially canceling noise, the system comprising: at least one noise detector configured to detect noise from a noise producing object; at least one sound emitter configured to emit sound; a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause the at least one sound emitter to emit sound at a polarity substantially opposite to a polarity of

the detected noise and at a frequency and intensity substantially the same as that of the detected noise; and an analyzer configured to analyze the noise detected by the at least one noise detector, the analyzer being configured to determine when noise detected by the at least one noise detector is indicative of at least one condition of the noise producing object, further comprising a member configured to be located in the vicinity of the noise producing object, wherein the member comprises a plurality of elements, at least one of the elements comprising the at least one sound emitter, and wherein the member is configured in the form of a panel.

36. (Original) The system of claim 35, wherein the panel has a substantially planar shape.

37. (canceled)

38. (currently amended) ~~The system of claim 25,~~ A system for at least partially canceling noise, the system comprising: at least one noise detector configured to detect noise from a noise producing object; at least one sound emitter configured to emit sound; a controller configured to receive at least one signal indicative of noise detected by the at least one noise detector and to send at least one signal so as to cause the at least one sound emitter to emit sound at a polarity substantially opposite to a polarity of the detected noise and at a frequency and intensity substantially the same as that of the detected noise; and an analyzer configured to analyze the noise detected by the at least one noise detector, the analyzer being configured to determine when noise detected by the at least one noise detector is indicative of at least one condition of the noise producing object, and wherein the controller is configured to cause the at least one sound emitter to emit sound at substantially the same intensity and frequency as that of the detected noise.

39-41 (canceled)

42. (currently amended) ~~The method of claim 41,~~ A method of at least partially canceling noise, comprising: detecting noise from a noise producing object; emitting sound at a polarity substantially opposite to polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise; and analyzing the detected noise so as to determine when the detected noise is indicative of at least one condition of the noise producing object, and wherein the analyzing comprises comparing the detected noise to information relating to at least one noise profile of the object.

43. (currently amended) ~~The method of claim 41,~~ A method of at least partially canceling noise, comprising: detecting noise from a noise producing object; emitting sound at a polarity substantially opposite to polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise; and analyzing the detected noise so as to determine when the detected noise is indicative of at least one condition of the noise producing object, and further comprising providing output indicative of a possible failure associated with the object.

44. (canceled)

45. (currently amended) ~~The method of claim 41,~~ A method of at least partially canceling noise, comprising: detecting noise from a noise producing object; emitting sound at a polarity substantially opposite to polarity of the detected noise, and at a frequency and intensity substantially the same as that of the detected noise; and analyzing the detected noise so as to determine when the detected noise is indicative of at least one condition of the noise producing object, and wherein the emitted sound is at substantially the same intensity and frequency as that of the detected noise.